



# HALOGENATED SOLVENT DEGREASERS

## COMPLIANCE INSPECTION CHECKLIST

**INSPECTION TYPE:** ANNUAL (INS1, INS2)  COMPLAINT/DISCOVERY (CI)   
 RE-INSPECTION (FUI)  ARMS COMPLAINT NO:

**AIRS ID#:** 0112529 **DATE:** 06/22/2006 **ARRIVE:** \_\_\_\_\_ **DEPART:** \_\_\_\_\_

**FACILITY NAME:** KELLSTROM REPAIR SERVICES

**FACILITY LOCATION:** 1731 Flamingo Road  
MIRAMAR 33027

**RESPONSIBLE OFFICIAL:** FRED SORENSEN **PHONE:** (954)349-6277

**CONTACT NAME:** **PHONE:**

**REMITTANCE YEAR:** 2005 **ENTITLEMENT PERIOD:** 2/11/2001 / 2/11/2006  
(effective date) (end date)

**PART I: INSPECTION COMPLIANCE STATUS** (check  only one box)

IN COMPLIANCE     MINOR Non-COMPLIANCE     SIGNIFICANT Non-COMPLIANCE

**PART II: NOTIFICATION – Rule 62-210.300 FAC**  
 (check  appropriate box(es))

<p>1. Halogenated solvent used at facility:</p> <p>perchloroethylene ----- <input type="checkbox"/></p> <p>methylene chloride ----- <input type="checkbox"/></p> <p>trichloroethylene ----- <input type="checkbox"/></p> <p>1,1,1-trichloroethane ----- <input type="checkbox"/></p> <p>carbon tetrachloride ----- <input type="checkbox"/></p> <p>chloroform ----- <input type="checkbox"/></p>	<p>2. Indication on notification form that facility has the following machine type(s).</p> <p>Batch Vapor, <math>x \leq 1.21 \text{ m}^2</math> ----- <input type="checkbox"/></p> <p>Batch Vapor, <math>x &gt; 1.21 \text{ m}^2</math> ----- <input type="checkbox"/></p> <p>New In-line ----- <input type="checkbox"/></p> <p>Existing In-line ----- <input type="checkbox"/></p> <p>Batch Cold ----- <input type="checkbox"/></p>
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**PART III: CLASSIFICATION – Rule 62-213.300 FAC**  
 Indicate the machine type(s) observed at the facility:

Batch Vapor, $x \leq 1.21 \text{ m}^2$ -- <input type="checkbox"/>	New In-line ----- <input type="checkbox"/>	Batch Cold (immersion)----- <input type="checkbox"/>
Batch Vapor, $x > 1.21 \text{ m}^2$ -- <input type="checkbox"/>	Existing In-line -- <input type="checkbox"/>	Batch Cold (remote reservoir)-- <input type="checkbox"/>

**PART IV: GENERAL CONTROL REQUIREMENTS – Rule 62-213.300 FAC**

**A. Batch Vapor and In-Line Machines**

1. Does the facility maintain an idling and downtime mode cover that is readily opened and closed, that completely covers, has no cracks, holes, or defects; OR maintain a room designed with reduced draft according to Part II, Section (5)(c)6.b of the permit notification? -----  Yes  No
2. Does the facility maintain a freeboard ratio of 0.75 or greater? -----  Yes  No
3. Does the facility utilize a parts basket or parts whose size is less than 50% of the solvent-air interface area; OR introduce parts or parts basket at 0.9 m/min (3 ft/min) or less? -----  Yes  No
4. Does the facility conduct all spraying operations within the vapor zone or an area not directly exposed to ambient air? -----  Yes  No
5. Does the facility install and maintain an automated parts handling system capable of moving the parts/parts basket at 3.4 m/min. (11ft/min) or less? -----  Yes  No
6. Does the facility install and maintain a carbon adsorber on all machines using a lip exhaust? The exhaust concentration should not exceed 100 ppm halogenated solvent, the carbon adsorber should not be by-passed, the lip exhaust shall be located above the closed machine cover. ----  Yes  No  N/A
7. Does the facility have each machine equipped with:
  - a. a device to shut off sump heat if the solvent level drops to the heater coils? -----  Yes  No
  - b. a device to shut off sump heat if the vapor level rises above the height of the vapor condenser? -----  Yes  N
  - c. a primary condenser? -----  Yse  N
8. Does the facility store all waste solvent, still bottoms, and sump bottoms in closed containers? -----  Yes  No

**B. Batch Cold Cleaning Machines**

1. Does the facility collect and store all waste solvent in closed containers? -----  Yes  No
2. Does the facility use a flexible hose or flushing device only within the freeboard area? -----  Yes  No
3. Does the facility drain cleaned parts for 15 seconds or longer or until dripping ceases, whichever is longer? -----  Yes  No
4. Does the facility maintain the solvent level inside the machine at or below the fill line? -----  Yes  No
5. Does the facility immediately clean up spills during solvent transfer? Store wipe rags in a covered container? -----  Yes  No
6. Does the facility operate the agitator to produce a rolling motion? (*applicable only when air or pump agitated solvent bath used*). -----  Yes  No  N/A
7. Does the facility ensure that the machine is not exposed to drafts greater than 40 m/min (132 ft/min) when the cover is open? -----  Yes  No
8. Does the facility ensure that sponges, fabrics, wood and paper products are not placed in the machine? -----  Yes  No

**Remote Reservoir Type Only**

9. Does the facility employ a tightly fitting cover over the solvent sump? The cover must be closed at all times except during parts cleaning. -----  Yes  No  N/A

**Immersion Type Only**

10. Does the facility employ a tightly fitting cover and a water layer with a thickness of at least 2.5 cm (1 in.); OR employ a tightly fitting cover and maintain a freeboard ratio of 0.75? Tightly fitting cover must be closed at all times except during parts entry and removal. -----  Yes  No  N/A

**PART V: PROCESS VENT CONTROLS – Rule 62-213.300 FAC (not applicable to batch cold cleaning machines)**

**Facility chose to meet requirements using:**

- control device combination / work practice standards -----
- alternative solvent emission limit (*proceed to Part VI*) -----
- idling emission limit / work practice standards (*proceed to Part VI*) -----

**A. Batch Vapor Machines,  $x \leq 1.21 \text{ m}^2$**

(Select control combination)

**DEVICE IN USE**

- |                                |   |  |  |
|--------------------------------|---|--|--|
| 1. <input type="checkbox"/> g  | working mode cover -- <input type="checkbox"/>    | 1.0 freeboard ratio - <input type="checkbox"/> | superheated vapor ----- <input type="checkbox"/> |
| 2. <input type="checkbox"/> g  | reduced room draft --- <input type="checkbox"/>   | 1.0 freeboard ratio - <input type="checkbox"/> | superheated vapor ----- <input type="checkbox"/> |
| 3. <input type="checkbox"/> g  | reduced room draft --- <input type="checkbox"/>   | 1.0 freeboard ratio - <input type="checkbox"/> | dwel ----- <input type="checkbox"/>              |
| 4. <input type="checkbox"/> g  | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/>  |  |
| 5. <input type="checkbox"/> g  | freeboard refrig. device <input type="checkbox"/> | working mode cover <input type="checkbox"/>    |  |
| 6. <input type="checkbox"/> g  | freeboard refrig. device <input type="checkbox"/> | reduced room draft <input type="checkbox"/>    |  |
| 7. <input type="checkbox"/> g  | freeboard refrig. device <input type="checkbox"/> | 1.0 freeboard ratio - <input type="checkbox"/> |  |
| 8. <input type="checkbox"/> g  | freeboard refrig. device <input type="checkbox"/> | dwel ----- <input type="checkbox"/>            |  |
| 9. <input type="checkbox"/> g  | freeboard refrig. device <input type="checkbox"/> | carbon adsorber ---- <input type="checkbox"/>  |  |
| 10. <input type="checkbox"/> g | carbon adsorber ----- <input type="checkbox"/>    | 1.0 freeboard ratio - <input type="checkbox"/> | superheated vapor ----- <input type="checkbox"/> |

**B. Batch Vapor Machines,  $x > 1.21 \text{ m}^2$**

( Select control combination)

**DEVICE IN USE**

- |                               |   |   |  |
|-------------------------------|---|---|--|
| 1. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | 1.0 freeboard ratio ----- <input type="checkbox"/> |
| 2. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | working mode cover --- <input type="checkbox"/>    |
| 3. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | reduced room draft ----- <input type="checkbox"/>  |
| 4. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | superheated vapor -- <input type="checkbox"/> | carbon adsorber ----- <input type="checkbox"/>     |
| 5. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | reduced room draft - <input type="checkbox"/> | dwel ----- <input type="checkbox"/>                |
| 6. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | reduced room draft - <input type="checkbox"/> | 1.0 freeboard ratio ----- <input type="checkbox"/> |
| 7. <input type="checkbox"/> g | 1.0 freeboard ratio <input type="checkbox"/>      | reduced room draft - <input type="checkbox"/> | superheated vapor ----- <input type="checkbox"/>   |

**C. Existing In-Line Machines**

(Select control combination)

**DEVICE IN USE**

- |                               |   |  |
|-------------------------------|---|--|
| 1. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | 1.0 freeboard ratio - <input type="checkbox"/> |
| 2. <input type="checkbox"/> g | superheated vapor ---- <input type="checkbox"/>   | 1.0 freeboard ratio - <input type="checkbox"/> |
| 3. <input type="checkbox"/> g | freeboard refrig. device <input type="checkbox"/> | dwel ----- <input type="checkbox"/>            |
| 4. <input type="checkbox"/> g | carbon adsorber ----- <input type="checkbox"/>    | dwel ----- <input type="checkbox"/>            |

**D. New In-Line Machines**

(Select control combination)

**DEVICE IN USE**

- |                          |   |   |
|--------------------------|---|---|
| <input type="checkbox"/> | freeboard refrig. device <input type="checkbox"/> | superheated vapor - <input type="checkbox"/>  |
| <input type="checkbox"/> | freeboard refrig. device <input type="checkbox"/> | carbon adsorber ---- <input type="checkbox"/> |
| <input type="checkbox"/> | superheated vapor ----- <input type="checkbox"/>  | carbon adsorber ---- <input type="checkbox"/> |

**PART VI: RECORDKEEPING REQUIREMENTS – Rule 62-213.300(3) FAC**

**Has the responsible official maintained the following:**

1. Owner's manuals, design specifications, and other instructional materials for cleaning machine and control equipment? -----  Yes  No
2. Date of installation for cleaning machine and all control devices? If the exact date is unknown, they must have a letter stating installation occurred before or after 11/29/93. -----  Yes  No
3. Halogenated solvent content for each solvent used? (*exempt if <5% by weight*) -----  Yes  No
4. Estimates of annual solvent consumption for each machine? -----  Yes  No
5. Dates of solvent additions and amounts added to each machine? (*applicable only to those using an alternative emission limit*) -----  Yes  No  N/A
6. Idling emissions limit tests, including values obtained during the initial performance test? (*applicable only to those using an idling emissions limit*) -----  Yes  No  N/A
7. All control device and parameter monitoring? (*applicable only to batch vapor and in-line machines*) -----  Yes  No  N/A
8. Information on remedial actions in the event of exceedances or other repairs and subsequent monitoring of affected parameters? -----  Yes  No  N/A
9. Monthly emissions calculations (*applicable only to those using an alternative or idling emission limit*) -----  Yes  No  N/A
10. 3-month rolling average emissions calculations? (*applicable only to those using an alternative emission limit*) -----  Yes  No  N/A
11. Cleaning capacity calculations? (*applicable only to those using an alternative emission limit without a solvent-air interface*) -----  Yes  No  N/A

Courtney Pitters

06/22/2006

Inspector's Name (Please Print)

Date of Inspection

06/22/2007

Inspector's Signature

Approximate Date of Next Inspection

**COMMENTS:** Facility no longer has the solvent degreaser.